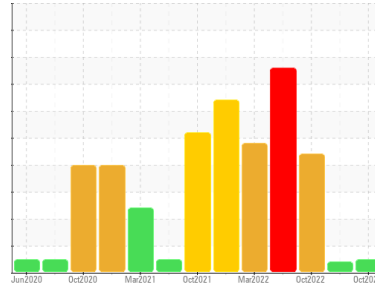


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[98581995]
 Machine Id
KR-GR-003527 - MIXER NORTH AGITATOR (S/N TUMBLE ROOM - 11558194)
 Component
Gearbox
 Fluid
GEAR OIL ISO 220 (14 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0051943	PCA0081586	PCA0081833
Sample Date	Client Info	16 Oct 2023	01 Jan 2023	13 Oct 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	ABNORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<1	1	7
Chromium	ppm	ASTM D5185m >15	0	0	<1
Nickel	ppm	ASTM D5185m >15	0	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	0	0
Lead	ppm	ASTM D5185m >100	0	<1	0
Copper	ppm	ASTM D5185m >200	<1	0	0
Tin	ppm	ASTM D5185m >25	0	<1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 50	0	0	4
Barium	ppm	ASTM D5185m 15	0	0	2
Molybdenum	ppm	ASTM D5185m 15	<1	1	11
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m 50	0	2	<1
Calcium	ppm	ASTM D5185m 50	0	2	11
Phosphorus	ppm	ASTM D5185m 350	379	471	186
Zinc	ppm	ASTM D5185m 100	0	3	7
Sulfur	ppm	ASTM D5185m 12500	817	1015	2210

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	1	2	4
Sodium	ppm	ASTM D5185m	0	0	4
Potassium	ppm	ASTM D5185m >20	0	2	0

FLUID CLEANLINESS

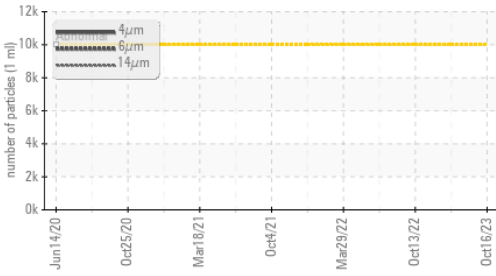
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	2433	---	---
Particles >6µm	ASTM D7647 >2500	468	---	---
Particles >14µm	ASTM D7647 >640	51	---	---
Particles >21µm	ASTM D7647 >160	13	---	---
Particles >38µm	ASTM D7647 >40	2	---	---
Particles >71µm	ASTM D7647 >10	1	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	18/16/13	---	---

FLUID DEGRADATION

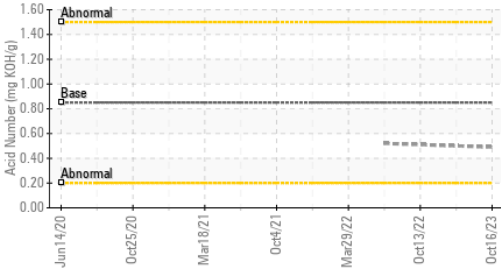
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	0.49	---	---

OIL ANALYSIS REPORT

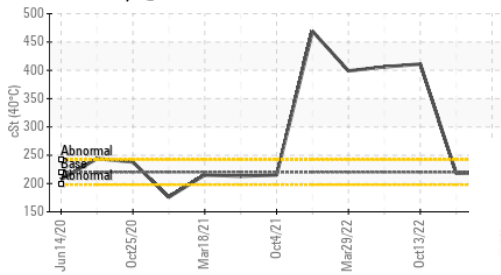
Particle Trend



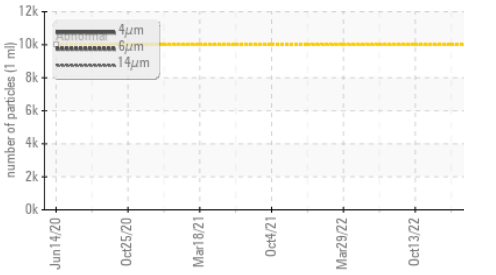
Acid Number



Viscosity @ 40°C



Particle Trend

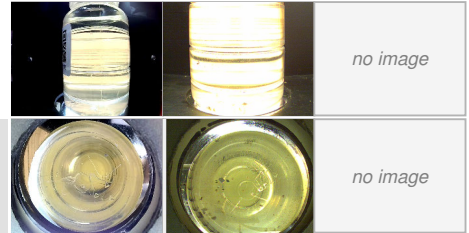


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	● 0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	219	218 ▲ 411

SAMPLE IMAGES	method	limit/base	current	history1	history2
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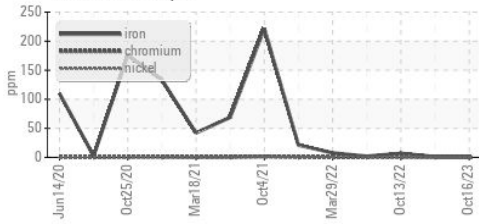
Color



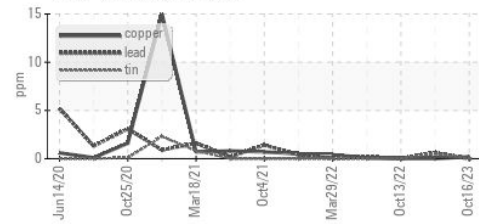
Bottom

GRAPHS

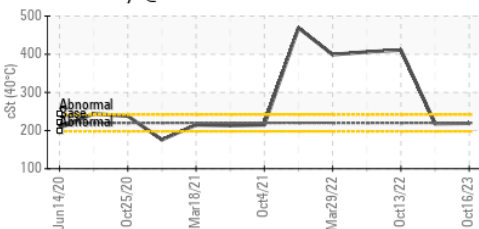
Ferrous Alloys



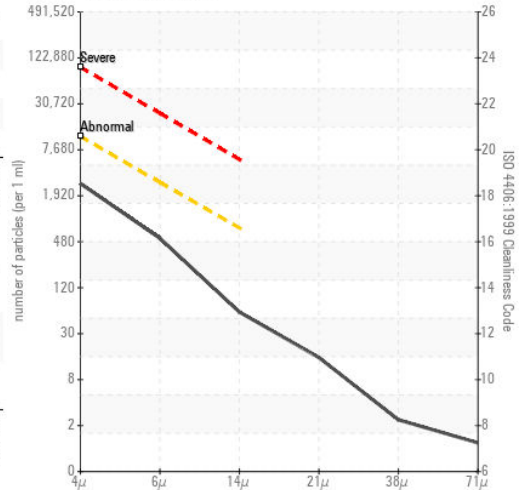
Non-ferrous Metals



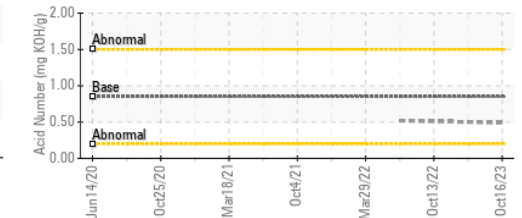
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0051943 **Received** : 17 Oct 2023
Lab Number : 05981201 **Diagnosed** : 20 Oct 2023
Unique Number : 10698496 **Diagnostician** : Don Baldrige

Test Package : IND 2 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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